"Providing and Fixing children play equipment Allalasandra lake in Ward No. 04 and Puttenahalli Lake in ward No.02".						
Quality Control Abstract						
Job code: 004-20-000004						
Bill Number: First & Final Bill						
Name of contractor: Sri K Gopi Reddy.						
Sl No.	Description of Materials	Test	No of Units Tested	No of samples conducted	Test result	Remarks
1	Test On Cement	IS 8112-1989	Per Batch	Per Batch	Satisfactory	-
2	Fine Aggregates	IS: 383-1970	Per Batch	Per Batch	Satisfactory	-
3	Course Aggregates	As per Morth	Per Batch	Per Batch	Satisfactory	-
4	M15 Concrete	Compressive Strength (IS 516-1959)	24	24	Satisfactory	-
5	Kerb Stones	Core Compressive Strength (IS 516-1959 (Reaffirmed -Sp-24, 1983	Per Batch	Per Batch	Satisfactory	-
6	Wet Mix Mecadam	IS: 383-1970	Per Batch	Per Batch	Satisfactory	-

SHRIYA CONSTRUCTION AND CONSULTANCY

AE

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Scanned by TapScanner

Mob : 99457 44759

Shriya Construction and Consultancy

1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town, Bangalore - 560 064.

Date: 05/03/2021

NO: YEL-P/PMC/ALL LAKE/KERB

Kerb Stone (Core Cutting Method) Test Report

Sub: Testing of concrete Kerb Stones (Core Cutting Method) - Compressive Strength)

Project: Name of work: **"Providing and Fixing children play equipment Allalasandra lake in Ward No. 04 and Puttenahalli Lake in ward No.02".**

Ref: Material Testing/PMC/20-21.

Report submitted to: Assistant Executive Engineer, Yelahanka Projects Division, BBMP Bangalore.

Name of Agency/ contractor: Sri K Gopi Reddy.

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CORE

CORE SPECIMENS

Grade Of concrete: **M15**

Technical Ref:. IS.516-1959 (Reaffirmed), Sp 24-1983.

Table 1.1

Dia of Specimens: 50 mm =D

L No	Height of core (H)mm	Weight of Core (KG)	Density of core (KG/m3)	H/D	Correction factor of H/D	Load KN	Compressive Strength - N/mm2	Correction Factor for dia (Strength x1.08)	Corrected Compressive Strength	Equavenent Cube Compressive Strength
1.	78	.354	2311.4	1.56	.960	26.3	13.39	14.47	13.39	17.36
2.	80	.368	2342.7	1.60	.960	26.3	13.39	14.47	13.39	17.36
3.	82	.382	2372.5	1.64	.960	25.10	12.78	13.81	13.25	16.57

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

SHRIYA CONSTRUCTION AND CONSULTANCY

Scanned by TapScanner

Mob : 99457 44759

Shriya Construction and Consultancy

1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town, Bangalore - 560 064.

NO: YEL-P/PMC/ALL LAKE/KERB

Date: 08/03/2021

KerbStone (Core Cutting Method) Test Report

Sub: Testing of concrete Kerb Stones (Core Cutting Method) - Compressive Strength)

Project: Name of work: **"Providing and Fixing children play equipment Allalasandra lake in Ward No. 04 and Puttenahalli Lake in ward No.02".**

Ref: Material Testing/PMC/20-21.

Report submitted to: Assistant Executive Engineer, Yelahanka Projects Division, BBMP Bangalore.

Name of Agency/ contractor: Sri K Gopi Reddy.

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CORE

CORE SPECIMENS

Grade Of concrete: **M15**
Technical Ref:. IS.516-1959 (Reaffirmed), Sp 24-1983.

Table 1.1

Dia of Specimens: 50 mm =D

SL No	Height of core (H)mm	Weight of Core (KG)	Dencity of core (KG/m3)	H/D	Correction factor of H/D	Load KN	Compressive Strength - N/mm2	Correction Factor for dia (Strength x1.08)	Corrected Compressive Strength	Equavenent Cube Compressive Strength
1.	78	.356	2301.4	1.56	.960	25.6	13.39	14.47	13.39	17.01
2.	80	.364	2332.7	1.60	.960	22.95	13.39	14.47	13.39	17.25
3.	82	.380	2352.5	1.64	.960	23.30	12.78	13.81	13.25	17.05

SHRIYA CONSTRUCTION AND CONSULTANCY

Scanned by TapScanner

Mob : 99457 44759

Shriya Construction and Consultancy

1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town, Bangalore - 560 064.

NO: YEL-P/PMC/ALL LAKE/ M15

Date: 08/02/2021

1. Test report on cement Concrete Cubes:

Sub: Testing of concrete cubes (for below said no of days – Compressive Strength)

Project: Name of work: **"Providing and Fixing children play equipment Allalasandra lake in Ward No. 04 and Puttenahalli Lake in ward No.02".**

Ref: Material Testing/PMC/20-21.

Report submitted to: Assistant Executive Engineer, Yelahanka Projects Division, BBMP Bangalore.

Name of Agency/ contractor: Sri K Gopi Reddy.

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CUBES

CUBE SPECIMENS

Dimentions of Specimens: 150x150x150mm

Grade Of concrete: **M15**

Table 1.1

Sl No	Location	Date Of Casting	Date Of Testing	Weight Of Cubes	Age in days	Load (KN)	ssive Strength N/mm2	Average Strength N/mm2
1	Gym and Children Equipment Posts	01.02.2021	08.02.2021	8.20	7	245.00	10.89	10.84
2		"	"	8.36	"	266.00	11.82	
3		"	"	8.00	"	231.00	10.27	
4		"	"	8.10	"	247.00	10.98	
5		"	"	8.14	"	209.00	9.29	
6		"	"	8.05	"	265.00	11.78	

SHRIYA CONSTRUCTION AND CONSULTANCY

Scanned by TapScanner

Mob : 99457 44759

Shriya Construction and Consultancy

1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town, Bangalore - 560 064.

NO: YEL-P/PMC/ALL LAKE/ M15

Date: 01/03/2021

1. Test report on cement Concrete Cubes:

Sub: Testing of concrete cubes (for below said no of days – Compressive Strength)

Project: Name of work: **"Providing and Fixing children play equipment Allalasandra lake in Ward No. 04 and Puttenahalli Lake in ward No.02".**

Ref: Material Testing/PMC/20-21.

Report submitted to: Assistant Executive Engineer, Yelahanka Projects Division, BBMP Bangalore.

Name of Agency/ contractor: Sri K Gopi Reddy.

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CUBES

CUBE SPECIMENS

Dimentions of Specimens: 150x150x150mm

Grade Of concrete: **M15**

Table 1.1

Sl No	Location	Date Of Casting	Date Of Testing	Weight Of Cubes	Age in days	Load (KN)	ssive Strength N/mm2	Average Strength N/mm2
1	Gym and Children Equipment Posts	01.02.2021	01.03.2021	8.36	7	386.00	17.16	17.68
2		"	"	8.41	"	394.00	17.51	
3		"	"	8.25	"	405.00	18.00	
4		"	"	8.16	"	401.00	17.82	
5		"	"	8.67	"	415.00	18.44	
6		"	"	8.22	"	386.00	17.16	

SHRIYA CONSTRUCTION AND CONSULTANCY

Scanned by TapScanner

Mob : 99457 44759

Shriya Construction and Consultancy

1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town, Bangalore - 560 064.

NO: YEL-P/PMC/ALL LAKE/ M15

Date: 10/02/2021

2. Test report on cement Concrete Cubes:

Sub: Testing of concrete cubes (for below said no of days – Compressive Strength)

Project: Name of work: **"Providing and Fixing children play equipment Allalasandra lake in Ward No. 04 and Puttenahalli Lake in ward No.02".**

Ref: Material Testing/PMC/20-21.

Report submitted to: Assistant Executive Engineer, Yelahanka Projects Division, BBMP Bangalore.

Name of Agency/ contractor: Sri K Gopi Reddy.

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CUBES

CUBE SPECIMENS

Dimentions of Specimens: 150x150x150mm

Grade Of concrete: **M15**

Table 1.1

Sl No	Location	Date Of Casting	Date Of Testing	Weight Of Cubes	Age in days	Load (KN)	ssive Strength N/mm2	Average Strength N/mm2
1	Gym and Children Equipment Posts	03.02.2021	10.02.2021	8.15	7	216.00	9.60	9.87
2		"	"	8.24	"	235.00	10.44	
3		"	"	8.29	"	242.00	10.76	
4		"	"	8.42	"	205.00	9.11	
5		"	"	8.00	"	235.00	10.44	
6		"	"	8.18	"	200.00	8.89	

SHRIYA CONSTRUCTION AND CONSULTANCY

Scanned by TapScanner

Mob : 99457 44759

Shriya Construction and Consultancy

1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town, Bangalore - 560 064.

NO: YEL-P/PMC/ALL LAKE/ M15

Date: 03/03/2021

2. Test report on cement Concrete Cubes:

Sub: Testing of concrete cubes (for below said no of days – Compressive Strength)

Project: Name of work: **"Providing and Fixing children play equipment Allalasandra lake in Ward No. 04 and Puttenahalli Lake in ward No.02".**

Ref: Material Testing/PMC/20-21.

Report submitted to: Assistant Executive Engineer, Yelahanka Projects Division, BBMP Bangalore.

Name of Agency/ contractor: Sri K Gopi Reddy.

RESULTS OF COMPRESSIVE STRENGHT OF CONCRETE CUBES

CUBE SPECIMENS

Dimentions of Specimens: 150x150x150mm

Grade Of concrete: **M15**

Table 1.1

Sl No	Location	Date Of Casting	Date Of Testing	Weight Of Cubes	Age in days	Load (KN)	ssive Strength N/mm2	Average Strength N/mm2
1	Gym and Children Equipment Posts	03.02.2021	03.03.2021	8.41	7	425.00	18.89	18.35
2		"	"	8.34	"	419.00	18.62	
3		"	"	8.36	"	400.00	17.78	
4		"	"	8.43	"	427.00	18.98	
5		"	"	8.47	"	411.00	18.27	
6		"	"	8.55	"	395.00	17.56	

SHRIYA CONSTRUCTION AND CONSULTANCY

Scanned by TapScanner

Mob : 99457 44759

Shriya Construction and Consultancy

1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town, Bangalore - 560 064.

NO: YEL-P/PMC/ALL LAKE/ Course Agg

Date: 25/01/2021

TEST REPORT ON COURSE AGGREGATES
(GRADATION TEST)

Sub: To conduct tests on Course Aggregates

Project: Name of work**: "Providing and Fixing children play equipment Allalasandra lake in Ward No. 04 and Puttenahalli Lake in ward No.02".**

Ref: Material Testing/PMC/20-21.

Report submitted to: Assistant Executive Engineer, Yelahanka Projects Division, BBMP Bangalore.

Name of Agency/ contractor: Sri K Gopi Reddy.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	**100.00**	100
45.00	**97.15**	95-100
26.50	**---**	-
22.40	**79.25**	60-80
11.20	**53.40**	40-60
4.75	**36.15**	25-40
2.36	**24.60**	15-30
0.600	**19.35**	8-22
0.075	**3.85**	0-5

SHRIYA CONSTRUCTION AND CONSULTANCY

Scanned by TapScanner

Mob : 99457 44759

Shriya Construction and Consultancy

1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town, Bangalore - 560 064.

Date: 25/01/2021

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)–1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**27.86%**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**28.34%**	Not more than 35.0 %
3.	Water absorption, %	**0.42 %**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

SHRIYA CONSTRUCTION AND CONSULTANCY

Scanned by TapScanner

Mob : 99457 44759

Shriya Construction and Consultancy

1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town, Bangalore - 560 064.

NO: YEL-P/PMC/ALL LAKE/ Course Agg Date: 25/01/2021

TEST REPORT ON COURSE AGGREGATES (GRADATION TEST)

Sub: To conduct tests on Course Aggregates

Project: Name of work: **"Providing and Fixing children play equipment Allalasandra lake in Ward No. 04 and Puttenahalli Lake in ward No.02".**

Ref: Material Testing/PMC/20-21.

Report submitted to: Assistant Executive Engineer, Yelahanka Projects Division, BBMP Bangalore.

Name of Agency/ contractor: Sri K Gopi Reddy.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	**100.00**	100
45.00	**94.35**	95-100
26.50	**---**	-
22.40	**74.15**	60-80
11.20	**52.10**	40-60
4.75	**36.45**	25-40
2.36	**26.70**	15-30
0.600	**18.05**	8-22
0.075	**3.45**	0-5

SHRIYA CONSTRUCTION AND CONSULTANCY

Scanned by TapScanner

Mob : 99457 44759

Shriya Construction and Consultancy

1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town, Bangalore - 560 064.

Date: 25/01/2021

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)-1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**27.54%**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**28.65 %**	Not more than 35.0 %
3.	Water absorption, %	**0.42 %**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

SHRIYA CONSTRUCTION AND CONSULTANCY

Scanned by TapScanner

Mob : 99457 44759

Shriya Construction and Consultancy

1133, 3rd Floor, 3rd Stage, 'B' Cross, Vidyaranya New Town, Bangalore - 560 064

NO: YSL/PMC/ALL LAKE/CEM

Date: 28/01/2021

1. Test report on Cement:

Sub: Testing of 53 Grade Cement Sample Pertaining to IS: 12269-1987

Project: Name of work: **"Providing and Fixing children play equipment Allahasandra lake in Ward No. 04 and Puttenahalli Lake in ward No.02".**

Ref: Material Testing/PMC/20-21.

Report submitted to: Assistant Executive Engineer, Yelahanka Projects Division, BBMP Bangalore.

Name of Agency/ contractor: Sri K Gopi Reddy.

PHYSICAL TESTS ON CEMENT

Grade Of Cement: 53, OPC

Table 1.1

Sl. No	Name of Tests	Result	As Per IS Requirements (IS 8112-1989)
1.	Initial Setting Time	162 Min	Shall Not be less than 30 Min
2.	Final Setting Time	275 Min	Shall Not be More than 600 Min
3.	Fineness (by dry sieve on IS 90 micron Seieve)	1.97 %	Not to Exceed 10.0 %
4.	Soundness Test by Lee-Chatelier's Method	2.14 mm	Shall not be more than 10 mm
5.	Compressive strength (3 days on average of 3 results	28.55 N/Sqmm	Shall not be less than 27 N /Sq mm

For Shriya Construction and Consultancy

SHRIYA CONSTRUCTION AND CONSULTANCY

Scanned by TapScanner

Mob : 99457 44759

Shriya Construction and Consultancy

1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town, Bangalore - 560 064.

NO: YEL/PMC/ALL LAKE/CEM

Date: 25/01/2021

1. Test report on Cement:

Sub: Testing of 53 Grade Cement Sample Pertaining to IS: 12269-1987

Project: Name of work: **"Providing and Fixing children play equipment Allalasandra lake in Ward No. 04 and Puttenahalli Lake in ward No.02".**

Ref: Material Testing/PMC/20-21.

Report submitted to: Assistant Executive Engineer, Yelahanka Projects Division, BBMP Bangalore.

Name of Agency/ contractor: Sri K Gopi Reddy.

PHYSICAL TESTS ON CEMENT

Grade Of Cement: 53, OPC

Table 1.1

SL No	Name of Tests	Result	As Per IS Requirements (IS 8112-1989)
1.	Initial Setting Time	168 Min	Shall Not be less than 30 Min
2.	Final Setting Time	275 Min	Shall Not be More than 600 Min
3.	Fineness (by dry sieve on IS 90 micron Seieve)	1.98 %	Not to Exceed 10.0 %
4.	Soundness Test by Lee-Chatelier's Method	2.15 mm	Shall not be more than 10 mm
5.	Compressive strength (3 days on average of 3 results	29.56 N/Sqmm	Shall not be less than 27 N /Sq mm

SHRIYA CONSTRUCTION AND CONSULTANCY

Scanned by TapScanner

Mob : 99457 44759

Shriya Construction and Consultancy

1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town, Bangalore - 560 064.

NO: YEL/PMC/ALL LAKE/CEM

Date: 25/01/2021

1. Test report on Cement:

Sub: Testing of 53 Grade Cement Sample Pertaining to IS: 12269-1987

Project: Name of work: **"Providing and Fixing children play equipment Allalasandra lake in Ward No. 04 and Puttenahalli Lake in ward No.02".**

Ref: Material Testing/PMC/20-21.

Report submitted to: Assistant Executive Engineer, Yelahanka Projects Division, BBMP Bangalore.

Name of Agency/ contractor: Sri K Gopi Reddy.

PHYSICAL TESTS ON CEMENT

Grade Of Cement: 53, OPC

Table 1.1

SL No	Name of Tests	Result	As Per IS Requirements (IS 8112-1989)
1.	Initial Setting Time	162 Min	Shall Not be less than 30 Min
2.	Final Setting Time	275 Min	Shall Not be More than 600 Min
3.	Fineness (by dry sieve on IS 90 micron Seieve)	1.97 %	Not to Exceed 10.0 %
4.	Soundness Test by Lee-Chatelier's Method	2.14 mm	Shall not be more than 10 mm
5.	Compressive strength (3 days on average of 3 results	28.55 N/Sqmm	Shall not be less than 27 N /Sq mm

SHRIYA CONSTRUCTION AND CONSULTANCY

Scanned by TapScanner

Mob : 99457 44759

Shriya Construction and Consultancy

1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town, Bangalore - 560 064.

NO: YEL/PMC/ALL LAKE/WMM **Date: 02/03/2021**

TEST REPORT ON WET MIX MACADAM MIX (GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.

Project: Name of work: **"Providing and Fixing children play equipment Allalasandra lake in Ward No. 04 and Puttenahalli Lake in ward No.02".**

Ref: Material Testing/PMC/20-21.

Report submitted to: Assistant Executive Engineer, Yelahanka Projects Division, BBMP Bangalore.

Name of Agency/ contractor: Sri K Gopi Reddy.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	**100.00**	100
45.00	**94.35**	95-100
26.50	**---**	-
22.40	**74.15**	60-80
11.20	**52.10**	40-60
4.75	**36.45**	25-40
2.36	**26.70**	15-30
0.600	**18.05**	8-22
0.075	**3.45**	0-5

SHRIYA CONSTRUCTION AND CONSULTANCY

Scanned by TapScanner

Mob : 99457 44759

Shriya Construction and Consultancy

1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town, Bangalore - 560 064.

Date: 02/03/2021

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**27.54%**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**28.65 %**	Not more than 35.0 %
3.	Water absorption, %	**0.42 %**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

SHRIYA CONSTRUCTION AND CONSULTANCY

Scanned by TapScanner

Mob : 99457 44759

Shriya Construction and Consultancy

1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town, Bangalore - 560 064.

NO: YEL/PMC/ALL LAKE/WMM **Date: 03/03/2021**

TEST REPORT ON WET MIX MACADAM MIX

(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.

Project: Name of work: **"Providing and Fixing children play equipment Allalasandra lake in Ward No. 04 and Puttenahalli Lake in ward No.02".**

Ref: Material Testing/PMC/20-21.

Report submitted to: Assistant Executive Engineer, Yelahanka Projects Division, BBMP Bangalore.

Name of Agency/ contractor: Sri K Gopi Reddy.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, V Revision-2013
53.00	00.00	100
45.00	97.15	95-100
26.50	---	-
22.40	79.25	60-80
11.20	53.40	40-60
4.75	36.15	25-40
2.36	24.60	15-30
0.600	19.35	8-22
0.075	3,85	0-5

SHRIYA CONSTRUCTION AND CONSULTANCY

Scanned by TapScanner

Mob : 99457 44759

Shriya Construction and Consultancy

1133, 3rd Floor, 3rd Stage, 'B' Cross, Yelahanka New Town, Bangalore - 560 064.

Date: 03/03/2021

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**27.86%**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**28.34%**	Not more than 35.0 %
3.	Water absorption, %	**0.42 %**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

SHRIYA CONSTRUCTION AND CONSULTANCY

Scanned by TapScanner